

The applicant, therefore, requests that the Examiner delete the entire specification and replace with the enclosed substitute specification.

IN THE CLAIMS-

To facilitate entry of the following changes, the Applicant has submitted herewith substitute pages providing all the pending/clean claims, as they now stand, incorporating the changes indicated below.

Amend the claims as follows:

1 --1. (amended) [In a] A non-planar log-periodic antenna
2 [of type] comprising two radiator arms oriented about a
3 common axis with and enclosing a square pyramidal conductor
4 with truncated tip.

1 2. (amended) An antenna as in claim 1 [Said antenna]
2 wherein the arms are [composed of] low ohmic loss metal.

Q' 1 3. (amended) An antenna as in claim 1 [Said antenna]
2 wherein the arms are identical log-periodic shapes, inclined
3 by less than 30 degrees to each other, oriented to have 180
4 degree symmetry about the [said] common axis.

1 4. (amended) An antenna as in claim 1 wherein said [Said]
2 square pyramidal conductor comprises [made of] low loss
3 metal.

1 5. (amended) An antenna as in claim 1 [Said square
2 pyramidal conductor] wherein the axis of the pyramid and
3 said antenna arm pair are common.

1 6. (amended) An antenna as in claim 1 wherein the opening
2 angle of said [Said] square pyramidal conductor [wherein
3 opening angle of same] is one half or less of the
4 inclination angle of said antenna arms.

1 7. (amended) An antenna as in claim 1 wherein said [Said]
2 square pyramidal conductor [wherein same] has identical
3 projected extent along the common axis as said antenna.

1 8. (amended) An antenna comprising two antenna arms and an
2 interior shield wherein the combination [Combination] of
3 said two antenna arms with said shield in the interior
4 [wherein the entire structure] behaves as a log-periodic
5 antenna.

1 9. (amended) [The] A non-planar log-periodic antenna [of
2 type] comprising four radiator arms oriented about a common
3 axis and enclosing a square pyramidal conductor with
4 truncated tip.

1 10. (amended) [The said combination wherein] An antenna as
2 in claim 8 further comprising a short wire [is] attached to
3 the narrow end of each of said antenna arms, at an endpoint
4 of the [said] antenna arm centerline, and threaded into
5 [the] said square pyramidal conductor through said truncated
6 tip of [the] said square pyramidal conductor.